

## CLAIMS

What is claimed is:

- 1                   1.     A detachable grouser assembly for use with vehicles having  
2 continuous flexible tracks, the grouser assembly comprising the following:  
3                   a traction grouser adapted and constructed to fit onto a track of the  
4                   vehicle; and  
5                   a selectively releasable mechanical attachment assembly connecting the  
6                   traction grouser to the track of the vehicle through a hole in the  
7                   track.
- 1                   2.     A grouser assembly in accordance with claim 1, wherein the  
2 flexible track includes a plurality of clean-out holes, and the selectively releasable  
3 mechanical attachment assembly is secured to the flexible track by insertion of  
4 a part of the grouser assembly through the clean-out holes.
- 1                   3.     A grouser assembly in accordance with claim 2, wherein the  
2 selectively releasable mechanical attachment assembly comprises the following:  
3                   a mounting plate; and  
4                   securing members extending through the clean-out holes and releasably  
5 connecting the mounting plate to the traction grouser.
- 1                   4.     A grouser assembly in accordance with claim 3, wherein the  
2 securing members comprise threaded bolt assemblies.
- 1                   5.     A grouser assembly in accordance with claim 3, wherein the  
2 traction member comprises raised traction elements.
- 1                   6.     A grouser assembly in accordance with claim 5, wherein the  
2 raised traction elements are configured in a chevron arrangement.

1                   7.     A grouser assembly in accordance with claim 5, wherein the  
2     raised traction elements comprises a cork member.

1                   8.     A grouser assembly in accordance with claim 7, further  
2     comprising a traction-enhancing feature on the cork element.

1                   9.     A grouser assembly in accordance with claim 8, wherein  
2     traction-enhancing feature comprises spiral grooves.

1                   10.    A reusable, detachable grouser assembly for use with  
2     vehicles having continuous flexible tracks, the grouser assembly comprising the  
3     following:

4                a traction grouser adapted and constructed to fit onto a first side of a  
5                track of the vehicle, the traction grouser having a contour that  
6                enhances the ability of the track section to grip into surfaces  
7                traversed by the tracked vehicle; and

8                a selectively releasable mechanical attachment assembly connecting the  
9                traction grouser to the track of the vehicle through a hole in the  
10              track, the attachment assembly including a mounting plate  
11              mounted on a second side of the track of the vehicle.

1                   11.    A grouser assembly in accordance with claim 1, wherein the  
2     flexible track includes a plurality of clean-out holes, and the selectively releasable  
3     mechanical attachment assembly is secured to the flexible track by insertion of  
4     a part of the grouser assembly through the clean-out hole.

1                   12.    A grouser assembly in accordance with claim 11, wherein  
2     the flexible track includes a plurality of clean-out holes, and the selectively  
3     releasable mechanical attachment assembly is secured to the flexible track by  
4     insertion of a part of the attachment assembly through the clean-out hole.

1                   13. A grouser assembly in accordance with claim 11, wherein  
2 the flexible track includes a plurality of clean-out holes, and the selectively  
3 releasable mechanical attachment assembly is secured to the flexible track by  
4 insertion of a part of the traction grouser through the clean-out holes.

1                   14. A grouser assembly in accordance with claim 11, wherein  
2 the selectively releasable mechanical attachment assembly comprises securing  
3 members extending through the clean-out holes and releasably connecting the  
4 mounting plate to the traction grouser.

1                   15. A grouser assembly in accordance with claim 14, wherein  
2 the securing members comprise threaded bolt assemblies.

1                   16. A grouser assembly in accordance with claim 10, wherein  
2 the traction member comprises raised traction elements.

1                   17. A grouser assembly in accordance with claim 16, wherein  
2 the raised traction elements are configured in a chevron arrangement.

1                   18. A grouser assembly in accordance with claim 16, wherein  
2 the raised traction elements comprises a cork member.

1                   19. A grouser assembly in accordance with claim 18, further  
2 comprising a traction-enhancing feature on the cork element.

1                   20. A grouser assembly in accordance with claim 19, wherein  
2 traction-enhancing feature comprises spiral grooves.